

## Arithmetic Practice Test: 3

For Grade-8, 9 and 10 students

Time: 30 minutes

1. A salesman purchased 24 dozen of candles each at a price of \$6. He sold few damaged candles each at a price of \$4.50 and remaining candles each at a profit of 25%. He made a total profit of  $20\frac{5}{6}\%$  after selling all the candles. How many candles were damaged?
2. A businessman sold 24 quintal of salt at a profit of 10% and 18 quintal of salt at a profit of 16%. If he would have sold, the total 42 quintal of salt at a profit of 13%, then he would have \$4.50 more profit overall. What is the cost price of each quintal of salt?
3. A trader initially invested his money in a company which doubled his principal. He withdrew his money and subsequently invested the total amount in 3 other companies one after another. In these 3 companies he lost 20% in each. How much profit or loss he did finally?
4. A person sold two cycles each at a price of \$240. From the 1<sup>st</sup> cycle he made a profit of 25% and from the 2<sup>nd</sup> cycle he made a loss of 25%. In overall how much % profit or loss was made?
5. A laptop was sold at a price of \$824. If it would have been sold at a price of \$840, then additional 2% profit would be made. What was the cost price of the laptop?
6. 7% of the selling price of a product are equal to 8% of the cost price of the same product. If 9% of the selling price is higher by  $\$ \frac{1}{8}$  of 10% of the cost price, then find the cost and selling price of the product.
7. A manufacturer gives 15% discount from the retail price of a product and makes a profit of 19% of the manufacturing cost. If the manufacturing cost increases by 12%, the retail price is increased by 10%. If the manufacturer gives same discount as before, what will be the % profit?
8. A person sold his horse at 20% profit and the cart at 15% profit. He earned \$719.50 after selling both horse and cart. If he would have sold the horse at 25% profit and

the cart at a 20% profit, he would have earned \$30.50 more. Find the cost price of the horse and the cart.

9. One day, a fruit vendor sold mangoes at the rate of \$5 /mangoes and in the next day he sold the mangoes at the rate of \$6 /mango. In the second case he made 50% more profit than the first case. What was the % profit for the second case?
10. A person bought two mobile phones at a total price of \$820. He sold both the phones at the same price and made a profit of 25% from the 1<sup>st</sup> phone and made a loss of 20% from the 2<sup>nd</sup>. Find the cost price of each phone.

#### ANSWERS

1. 24
2. \$25
3.  $2\frac{2}{5}\%$  Profit.
4.  $6\frac{1}{4}\%$  Loss.
5. \$800
6. Cost price =  $\$43\frac{3}{4}$ , Selling price = \$50
7.  $16\frac{7}{8}\%$
8. Horse: \$360, Cart: \$250
9. 200%
10. \$320, \$500